	Application No	,	Applicant(s)	
Madia - af Allanos Lilla -	09/341,151		TAKEUCHI ET AL.	
Notice of Allowability	Examiner		Art Unit	
	Michael P. Moor	ney	2877	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-88 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.33	S (OR REMAINS) C 5) or other appropria RIGHTS . This appl	CLOSED in this apparte communication ication is subject to	olication. If not includ will be mailed in due	ed course. THIS
1. This communication is responsive to <u>Amdt 8/6/03</u> .				
2. The allowed claim(s) is/are 1-40.				
3. The drawings filed on are accepted by the Examir	ner.			
 Acknowledgment is made of a claim for foreign priority unerland a)	nder 35 U.S.C. § 11	9(a)-(d) or (f).		
1. Certified copies of the priority documents have	ve been received.			
2. Certified copies of the priority documents have	ve been received in	Application No	·	
3. Copies of the certified copies of the priority d	ocuments have bee	en received in this r	national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic priority	under 35 U.S.C. § 1	119(e) (to a provisi	onal application).	
(a) The translation of the foreign language provisional	application has bee	en received.		
6. Acknowledgment is made of a claim for domestic priority	under 35 U.S.C. §§	120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the comply will result in ABANDONMENT of the complex of	of this application. Imitted. Note the att	THIS THREE-MON ached EXAMINER	ITH PERIOD IS NOT 'S AMENDMENT or I	EXTENDABLE
 CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No 	erson's Patent Draw	ing Review (PTO-	.948) attached	
(b) including changes required by the proposed drawing	correction filed	, which has be	een approved by the E	xaminer.
(c) including changes required by the attached Examine	er's Amendment / C	omment or in the C	Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should be w	ritten on the drawin	ngs in the front (not the	back) of
9. DEPOSIT OF and/or INFORMATION about the depoattached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLOGIC THE DEPOSIT OF	AL MATERIAL m BIOLOGICAL MAT	nust be submitted. I TERIAL.	lote the
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4□ 6□ 8⊠	Interview Summa Examiner's Amer	al Patent Application (ary (PTO-413), Paper ndment/Comment ment of Reasons for	No

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The prior art, either alone or in combination, does not disclose or render obvious: actuator substrate including a plurality of discrete actuator elements fixed thereto; a display device comprising a crosspiece formed at a portion other than the pixel structure between the optical waveguide plate and the actuator substrate in combination with the rest of claim 1.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than actuator elements, of an actuator substrate arranged with the actuator elements corresponding to a large number of pixels; a pressurizing step of laminating and pressurizing an optical waveguide plate (OWP) in a state in which at least the pixel structures (PSs) are not hardened, and then hardening at least the PSs in combination with the rest of claim 14.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than portions corresponding to a large number of actuator elements, of an optical waveguide plate (OWP); a pressurizing step of laminating an actuator substrate (AS) arranged with actuator elements corresponding to a large number of pixels, on the crosspiece and the pixel structures, and pressurizing the OWP and AS in directions to make approach to one another in combination with the rest of claim 15.

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The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than actuator elements, of an actuator substrate arranged with the actuator elements corresponding to a large number of pixels; a pressurizing step of laminating a surface of the AS formed with said crosspieces and a surface of the OWP formed with said PSs with each other, and pressurizing the OWP and AS in directions to make approach to one another in combination with the rest of claim 16.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than portions corresponding to a large number of actuator elements, of an optical waveguide plate (OWP); a pressurizing step of laminating a surface of the AS formed with the SPs and a surface of the OWP formed with said crosspieces with each other, and pressurizing the OWP and AS in directions to make approach to one another in combination with the rest of claim 17.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a pixel-forming step of forming pixel structures on respective actuator elements (AEs) of an AS arranged with said AEs of a number corresponding to a large number of pixels and integrally having a plurality of crosspieces at portions other than AEs in combination with the rest of claim 18.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of

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forming a plurality of crosspieces at portions other than actuator elements, of an actuator substrate arranged with the actuator elements of a number corresponding to a large number of pixels; a second laminating step of removing the plate member, and then laminating an OWP at least on the crosspieces in combination with the rest of claim 19.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than portions corresponding to a large number of pixels, of a plate member (PM); a second laminating step of removing the plate member to transfer the crosspieces and the PSs to the AS, and then laminating an OWP on at least the crosspieces in combination with the rest of claim 20.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than actuator elements, of an actuator substrate arranged with the actuator elements of a number corresponding to a large number of pixels; a second laminating step of removing the plate member to transfer the the PSs to the AS, and then laminating an OWP on at least the crosspieces in combination with the rest of claim 21.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than portions corresponding to a large number of pixels, of a plate member (PM); a second laminating step of removing

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the plate member to transfer the crosspieces and the PSs to the AS, and then laminating an OWP on at least the crosspieces in combination with the rest of claim 22.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a pixel-forming step of forming pixel structures on respective actuator elements (AEs) of an AS arranged with said AEs of a number corresponding to a large number of pixels and integrally having a plurality of crosspieces at portions other than AEs in combination with the rest of claim 23.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of removing a jig, and then forming a plurality of crosspieces at portions other than actuator sections, of the actuator substrate; and a second laminating step of laminating an OWP on at least the crosspieces on the AS in combination with the rest of claim 24.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of removing a jig, and then forming a plurality of crosspieces at portions other than portions corresponding the large number of pixels, of an OWP; and a second laminating step of laminating a surface of the actuator substrate formed with the PSs and a surface of the OWP formed with the crosspieces with each other in combination with the rest of claim 25.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a first laminating step (LS) of laminating said surface of said jig formed with said size-defining members and said

crosspieces and a surface of said AS formed with said PSs with each other; a second LS of removing said jig to transfer said crosspieces to said actuator substrate, and then laminating an OWP on at least said crosspieces of said AS in combination with the rest of claim 26.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than actuator elements, of an actuator substrate arranged with the actuator elements corresponding to a large number of pixels; a second laminating step of removing the jig, and then laminating an OWP on at least the crosspieces on the AS in combination with the rest of claim 27.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of forming a plurality of crosspieces at portions other than actuator elements, of an actuator substrate arranged with the actuator elements corresponding to a large number of pixels; a second laminating step of removing the jig to transfer the PSs to the AS, and then laminating an OWP on at least the crosspieces on the AS in combination with the rest of claim 28.

The prior art, either alone or in combination, does not disclose or render obvious a method for producing a display device comprising a crosspiece-forming step of using a jig including, on one surface of a PM, a large number of size-defining members (SDMs) formed to have substantially the same height as that of the crosspieces to be formed on an AS to form said plurality of crosspieces at portions formed with no SDMs,

of a surface of said jig formed with said SDMs, saiud portions being other than portions corresponding to a large number of pixels; a second LS of removing said jig to transfer said crosspieces and said PSs to said AS, and then laminating an OWP on at least said crosspieces in combination with the rest of claim 29.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Mooney whose telephone number is 703-308-6125. The examiner can normally be reached during weekdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 703-308-4881. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7721 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-

0956. An alternative useful number for status inquiries is 703-306-3329.

Michael P. Mooney

Examiner Art Unit 2877 Frank G. Font

Supervisory Patent Examiner

Art Unit 2877

FGF/mpm 9/8/03